



**ENVIRONMENT
AGENCY**

Variation Notice with introductory note

Pollution Prevention and Control Regulations 2000

**UPM-Kymmene (UK) Ltd
Weighbridge Road
Shotton
Deeside
Flintshire
CH5 2LL**

Variation Notice number

BV4916

Permit number

BT4885

Asiantaeth yr Amgylchedd Cymru

Ffordd Caer, Bwcle, Sir y Flint, CH7 3AJ

Environment Agency Wales

Chester Road, Buckley, Flintshire CH7 3AJ

Introductory note

This introductory note does not form a part of the Variation Notice.

The following Notice is issued under Regulation 17 of The Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I.2000 No. 1973 (as amended) (the Regulations) to vary the conditions of a Permit issued under the Regulations to operate [part of] an installation.

The Notice comprises Schedule 1 containing conditions to be deleted, Schedule 2 conditions to be amended and Schedule 3 conditions to be added. The Notice is subject to the express conditions set out in Schedules 1 to 3.

The Permit, as amended by this Variation Notice, contains conditions which have to be complied with. It should be noted that aspects of the operation of the installation which are not regulated by those conditions are subject to the condition implied by Regulation 12(10) of the PPC Regulations, that the Operator shall use the best available techniques for preventing or, where that is not practicable, reducing emissions from the installation. Techniques include both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned.

Brief description of the changes introduced by this variation notice.

UPM-Kymmene (UK) Limited will discontinue the manufacture of newsprint pulp via the Thermo Mechanical Pulp (TMP) process and expand the Recycled Fibre Pulp (RCF) facility. The long-term objective is to increase the output from 460,000 to 500,000 tonnes per annum as finished newsprint from 100% recycled paper. This will entail the decommissioning of the TMP/Woodyard, the installation of a third RCF line and improving the existing RCF lines. A fourth boiler will be installed to enable more efficient mill operation in conjunction with Gaz de France Marketing Limited operated Shotton Combined Heat and Power plant. These changes will have significant positive environmental benefits in the large reductions in landfill and energy usage with no significant negative impacts to air, water or land.

Permit holder	Permit Number	Date of Issue
Shotton Combined Heat and Power Ltd	BJ6429	12/03/2001

Holder	Reference Number	Date of Issue
UPM-Kymmene (UK) Limited	AA6408	02/04/1992
UPM-Kymmene (UK) Limited	AU7338	16/10/1996

Talking to us

If you contact the Agency about this Permit please quote the Permit Number.

The Operator should use the Emergency Hotline telephone number (0800 80 70 60) or any other number notified to it to give a notification under condition 5.1.1 of the Permit.

Confidentiality

The Permit/Variation requires the Operator to provide information to the Agency. The Agency will place the information onto the public registers in accordance with the requirements of the PPC Regulations. If the Operator considers that any information provided is commercially confidential, it may apply to the Agency to have such information withheld from the register as provided in the PPC Regulations. To enable the Agency to determine whether the information is commercially confidential, the Operator should clearly identify the information in question and should specify clear and precise reasons.

Variations to the permit

This Permit may be varied in the future. The Status Log within the Introductory Note to any such variation will include summary details of the Permit, variations issued up to that point in time and state whether a consolidated version of the Permit has been issued.

Surrender of the permit

Before this Permit can be wholly or partially surrendered, an application to surrender the Permit has to be made. For the applicant to be successful, they would have to be able to demonstrate to the Agency, in accordance with Regulation 19 of the PPC Regulations, that there is no pollution risk and that no further steps are required to return the site to a satisfactory state.

Transfer of the permit or part of the permit

Before the Permit can be wholly or partially transferred to another person, a joint application to transfer the Permit has to be made by both the existing and proposed holders, in accordance with Regulation 18 of the PPC Regulations. A transfer will be allowed unless the Agency considers that the proposed holder will not be the person who will have control over the operation of the installation or will not ensure compliance with the conditions of the transferred Permit. If the Permit authorises the carrying out of a specified waste management activity, then there is a further requirement that the transferee is considered to be a "fit and proper person" to carry out that activity.

Status Log

Application BT4885	Received 11/10/2002	
Duly Made	11/10/2002	
Permit BT4885	Determined 7/2/2003	
Application for variation	Received 31/7/2003	
Duly Made	31/7/2003	
Response to request for information	Request dated 19/09/03	Response dated 23/09/03
Response to request for information	Request dated 25/09/03	Response dated 01/10/03
Response to request for information	Request dated 25/09/03 & 06/10/03	Response dated 15/10/03
Variation BV4916	Determined	05/11/03

End of introductory Note

Pollution Prevention and Control
(England and Wales) Regulations 2000



**ENVIRONMENT
AGENCY**

Variation Notice

Permit number (The Permit)

BT4885

Variation Notice number

BV4916

The Environment Agency in exercise of its powers under Regulation 17 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I. 2000 No. 1973) (as amended), hereby varies the Permit issued 7 February 2003 and held by you.

UPM – Kymmene (UK) Limited ("the Operator"),

Whose Registered Office is

Meadowhead Road, Shewalton, Irvine, Scotland, KA11 5AT.

Company registration number SC 102969

to operate part of an Installation at

Weighbridge Road, Shotton, Deeside, Flintshire CH5 2LL

to the extent set out in Schedules 1 to 3 of this Variation Notice.

This Notice shall take effect from **Tuesday 11th November 2003 at 00.01 hours.**

Signed

Mr. D. Andrew

Authorised to sign on behalf of the Environment Agency

Date

SCHEDULE 1 - CONDITIONS TO BE DELETED

None

SCHEDULE 2 - CONDITIONS TO BE AMENDED

2. Condition 1.1.1 shall be amended to:

1.1.1 The operator is authorised to carry out the activities and/or the associated activities specified in Table 1.1.1 or as otherwise agreed in writing by the Agency.

Activity under Schedule 1 of the Regulations/ Associated Activity	Description of specified activity	Schedule 1 Activity Reference (if applicable)	Limits of specified activity
Producing in an industrial plant paper and board where the plant has a production capacity of more than 20 tonnes per day.	Newsprint manufacture from recycled fibre, including raw material processing and despatch of finished goods to the customer.	Schedule 1, Chapter 6, Section 6.1 Part (A)1	Waste paper delivery to site. Despatch of paper to customer.
Burning any fuel in an appliance with a rated thermal input of 50 MW or more.	Three gas/oil fired boilers and one fluidised bed sludge and bark combustor	Schedule 1, Chapter 1, Section 1.1 Part (A)1	Fuel delivery and storage, discharge stacks and steam distribution system
Effluent treatment plant.	Activated sludge treatment of all liquid effluent from the papermaking activity.	Directly Associated Activity	Effluent flow from papermachines, effluent treatment, lagoons and discharge system.

3. Condition 2.1.1 shall be amended to:

2.1.1 The permitted Installation shall, subject to the conditions of this permit, be managed and controlled as described in the documentation specified in Table 2.1.1, or as otherwise agreed in writing by the Agency.

Description	Parts	Date Received
Application	The response to question 2.1 given in section 2.1 of the Application, excluding Table 2.1, and in Appendix 2	11/10/02
Response to Schedule 4 Part 1 Notice	Response to question 5	11/10/02
Application for variation BV4916	Application for variation dated 25/07/03	31/07/03
Response to request for information	Response dated 01/10/03	02/10/03

4. Condition 2.2.1 shall be amended to:

2.2.1 The Operator shall, subject to the conditions of this Permit, use raw materials (including water) as described in the documentation specified in Table 2.2.1, or as otherwise agreed in writing by the Agency.

Description	Parts	Date Received
Application	The response to question 2.2 given in section 2.2 of the Application excluding Tables 2.2.2.1 and 2.2.3.1	11/10/02
Response to Sch-4 Notice	Item 6, Item 7	11/10/02
Application for variation BV4916	Application for variation dated 25/07/03	31/07/03
Response to request for information	Response dated 15/10/03	15/10/03

2.2.2 Trials to burn alternative fuels to softwood bark can only be undertaken with the written agreement of the Agency.

5. Condition 2.3.1 shall be amended to:

2.3.1 The Permitted Installation shall, subject to the conditions of this Permit, be operated using the techniques and in the manner described in the documentation specified in Table 2.3.1, or as otherwise agreed in writing by the Agency.

Description	Parts	Date Received
Application	The response to question 2.3 given in the Application section 2.3 excluding Tables 2.3.1, 2.3.3, 2.3.8, 2.3.9, 2.3.10, 2.3.12 and 2.3.13	11/10/02
Response to Sch 4 Notice	Item 4, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	11/10/02
Application for variation BV4916	Application for variation dated 25/07/03	31/07/03
Response to request for information	Response dated 23/09/03	23/09/03

6. Condition 2.5.1 shall be amended to:

2.5.1 The Operator shall, subject to the conditions of this Permit, handle and store waste as described in the documentation specified in Table 2.5.1, or as otherwise agreed in writing by the Agency.

Description	Parts	Date Received
Application	The response to question 2.5 given in the Application section 2.5 excluding Table 2.5.4	11/10/02
Application for variation BV4916	Application for variation dated 25/07/03	31/07/03

7. Condition 2.5.2 shall be amended to:

2.5.2 Waste materials specified in Table 2.5.2 shall only be stored on the site in the location and manner specified in that table

Description of Waste	Location of Storage on Site	Manner of Storage	Storage Conditions
Effluent Sludge	[1]	Storage Pile	Storage area with impermeable base. To be disposed of as soon as practicable
Boilerhouse Fly & Bed Ash	[2]	Covered Skip	Storage area with impermeable base. To be disposed of as soon as practicable
Rejects from RCF 1 & 2 & 3	[4]	Skip	Storage area with impermeable base. To be disposed of as soon as practicable
Waste Oil	[7]	Tanks	Bunded storage area with impermeable base. To be disposed of as soon as practicable
Waste Oil	[8]	Drums & Bins	Drums & Bins to be clearly marked and held in a storage area with impermeable base. To be disposed of as soon as practicable
General Site Waste	[10]	Compactor & Skip	Covered Storage area with impermeable base. To be disposed of as soon as practicable
Scrap Metal	[13]	Skip	Storage area with impermeable base. To be disposed of as soon as practicable
Reject & Damaged Cores	[14]	Skip	Storage area with impermeable base. To be disposed of as soon as practicable
Waste Paper	[15]	Covered Skip	Storage area with impermeable base. To be disposed of as soon as practicable

8. Condition 2.6.1 shall be amended to:

2.6.1 The Operator shall, subject to the conditions of this Permit, recover and dispose of waste as described in the documentation specified in Table 2.6.1, or as otherwise agreed in writing by the Agency.

Description	Parts	Date Received
Application	The response to question 2.6 given in the Application section 2.6 excluding Table 2.6.1	11/10/02
Application for variation BV4916	Application for variation dated 25/07/03	31/07/03

9. Condition 2.7.1 shall be amended to:

2.7.1 The Operator shall, subject to the conditions of this Permit, use energy as described in the documentation specified in Table 2.7.1, or as otherwise agreed in writing by the Agency.

Description	Parts	Date Received
Application	The response to question 2.7 given in the Application section 2.7.	11/10/02
Response to Schedule 4 Part 1 Notice	Response to questions 16 and 22	11/10/02
Additional information provided by letter	Sankey diagram.	11/10/02
Application for variation BV4916	Application for variation dated 25/07/03	31/07/03

10. Condition 2.10.1 shall be amended to:

2.10.1 The Operator shall, subject to the conditions of this Permit, carry out, evaluate and assess monitoring as described in the documentation specified in Table 2.10.1, or as otherwise agreed in writing by the Agency.

Description	Parts	Date Received
Application	The response to question 2.10 given in the Application section 2.10 excluding Table 2.10.8.	11/10/02
Response to Schedule 4 Part 1 Notice	Response to question 14.	11/10/02
Application for variation BV4916	Application for variation dated 25/07/03	31/07/03
Response to request for information	Response dated 01/10/03	02/10/03

2.10.4 The operator shall provide the Agency with individual quarterly mass emissions for boilers 1, 2, 3 & 6 for oxides of nitrogen, sulphur and particulate matter.

11. Condition 2.11.1 shall be amended to:

2.11.1 The Operator shall, subject to the conditions of this Permit, make provision for decommissioning the installation as described in the documentation specified in Table 2.11.1, or as otherwise agreed in writing by the Agency.

Description	Parts	Date Received
Application	The response to question 2.11 given in the Application section 2.11.	11/10/02
Application for variation BV4916	Application for variation dated 25/07/03	31/07/03
Response to request for information	Response dated 01/10/03	02/10/03

12. Condition 2.12.1 shall be amended to:

2.12.1 The Operator shall, subject to the conditions of this Permit, use the techniques and measures described in the documentation specified in Table 2.12.1, or as otherwise agreed in writing by the Agency.

Description	Parts	Date Received
Application	The response to question 2.12 given in the Application section 2.12. excluding Table 2.12.1.	11/10/02
Application for variation BV4916	Application for variation dated 25/07/03	31/07/03

Emissions into air

13. Condition 6.1.1 shall be amended to:

6.1.1 Emissions to air from the emission point(s) specified in Table 6.1.1 shall only arise from the source(s) specified in that Table.

Emission point reference/description	Source	Location of emission point
A1	PM1 Hood Exhaust	Point A1 on Fig 2.3.10.2
A2	PM1 Vacuum Pump Exhaust	Point A2 on Fig 2.3.10.2
A9	RCF1 Pulper Vent	Point A9 on Fig 2.3.10.2
A10	PM2 Hood Exhaust	Point A10 on Fig 2.3.10.2
A11	PM2 Vacuum Pump Exhaust	Point A11 on Fig 2.3.10.2
A12	RCF2 Pulper Vent	Point A12 on Fig 2.3.10.2
A13	Boiler 1 Stack	Point A13 on Fig 2.3.10.2
A14	Boiler 2 Stack	Point A14 on Fig 2.3.10.2
A15	Boiler 3 Stack	Point A15 on Fig 2.3.10.2
A18	Boiler 6 Stack	Point A18 on Fig 2.3.10.2
A19	RCF3 Pulper Vent	Point A19 on Fig 2.3.10.2

14. Condition 6.1.3 shall be amended to:

6.1.3 The Operator shall carry out monitoring of the parameters listed in Table 6.1.3, from the emission points and at least at the frequencies specified in that Table.

Parameters	Emission Point				
	A13 Boiler 1	A14 Boiler 2	A15 Boiler 3	A1 and A10	A18 Boiler 6
Oxides of nitrogen (as NO ₂) mg m ⁻³ (½ hourly average)	450	300	150	NA	150
Frequency of monitoring	quarterly	quarterly	quarterly		quarterly
Volatile Organic Compounds (as carbon) mg m ⁻³ (½ hourly average)	NA	-	NA	-	NA
Frequency of monitoring		quarterly		annually	
Sulphur dioxide mg m ⁻³ (½ hourly average)	NA	500	NA	NA	NA
Frequency of monitoring		quarterly			
Particulate mg m ⁻³ (min 4 hour sample)	NA	100	NA	NA	NA
Frequency of monitoring		quarterly			
Dioxins nm ⁻³ TEQ	NA	-	NA	NA	NA
Frequency of monitoring		annually			

The limits in Table 6.1.3 apply when using the normal fuel mix.

15. Condition 6.1.4 shall be amended to:

6.1.4 Where an annual mass limit for a substance is stated in Table 6.1.4, the aggregate emission of such substance from the Permitted Installation into air from the emission points A13, A14, A15, A18 specified in Table 6.1.2 shall not exceed that limit in any year.

Substance	Limit – Tonnes
Oxides of nitrogen	650
Oxides of sulphur	350
Particulate matter	30

Improvement programme

16. Condition 9.1.1 shall be amended to include improvement programme requirements 37 to 41:

9.1.1 The Operator shall complete the requirements specified in Table 9.1.1 by the date specified in that Table, and shall send written notification of the date of completion of each requirement to the Agency, at the Reporting Address, within 14 days of the completion of each such requirement.

Reference	Requirement	Date
37	The operator shall review the use of alternative co-fuels to softwood bark in accordance with BAT. A report of the findings shall be submitted to the Agency.	30/03/2004
38	The operator shall provide a report to the Agency detailing the research into the potential use of optical pigment agents (to trim paper brightness) as a replacement for sodium hydrosulphite.	31/03/2004
39	The operator shall review the particulate emissions monitoring requirements on boiler 2. The review shall include proposals for the installation of continuous monitoring of particulate emissions in accordance with BAT. A report of the findings shall be submitted to the Agency.	30/03/2004
40	The operator shall submit a report demonstrating to the Agency that the operation of boiler 6 has achieved BAT	30/06/2004
41	The operator shall provide the Agency with a detailed report of progress against the improvement programme every three months.	31/03/2004

Schedule 2

17. Condition 4.1.2 shall be amended to:

Parameters for which reports shall be made, in accordance with conditions 4.1.2 of this Permit, are listed below.

Parameter	Emission point	Reporting period	Period begins
Biochemical Oxygen Demand mg/l	W1	Quarterly	1 January 2003
Suspended Solids mg/l	W1	Quarterly	1 January 2003
PH	W1	Quarterly	1 January 2003
Temperature degrees Celsius	W1	Quarterly	1 January 2003
Ammoniacal Nitrogen mg/l	W1	Quarterly	1 January 2003
Flow Rate l/s	W1	Quarterly	1 January 2003
Flow m3/day	W1	Quarterly	1 January 2003
Flow m3/tide	W1	Quarterly	1 January 2003
Cadmium ug/l	W1	Quarterly	1 January 2003
Mercury ug/l	W1	Quarterly	1 January 2003
Organo-tin ug/l	W1	Quarterly	1 January 2003
Microtox	W1	Quarterly	1 January 2003
Dissolved Oxygen mg/l	W1	Quarterly	1 January 2003
Chemical Oxygen Demand mg/l	W1	Quarterly	1 January 2003
Annual Mass Release, kg for Biochemical Oxygen Demand.	W1	Every 12 mths	1 January 2003
Annual Mass Release, kg for Ammoniacal Nitrogen	W1	Every 12 mths	1 January 2003
Oxides of nitrogen (as NO ₂) mg m ⁻³ (½ hourly average)	A13,A14,A15	Quarterly	1 January 2003
	A18	Quarterly	1 January 2004
Volatile Organic Compounds (as carbon) mg m ⁻³ (½ hourly average)	A14	Quarterly	1 January 2003
	A1,A10	Every 12 mths	
Particulate mg m ⁻³ (min 4 hour sample)	A14	Quarterly	1 January 2003

Schedule 3

18. Condition 4.1.2 shall be amended to:

Unless otherwise agreed in writing between Agency and the Operator, the following Agency forms are to be used for reports submitted to Agency.

Media/parameter	Form Number	Date of Form
Air	A1	01/10/03
Air	A2	04/02/03
Water	W1	04/02/03
Water	W2	04/02/03
Energy	E1	04/02/03
Waste Return	R1	04/02/03

SCHEDULE 3 - CONDITIONS TO BE ADDED

19. Condition 2.2.2 Trials to burn alternative fuels to softwood bark can only be undertaken with the written agreement of the Agency.

20. Condition 2.10.4 The operator shall provide the Agency with individual quarterly mass emissions for boilers 1, 2, 3 & 6 for oxides of nitrogen, sulphur and particulate matter.

END OF PERMIT

Schedule 3 Reporting Forms Emissions to Air

Permit variation BV4916 to permit BT4885

UPM – Kymmene (UK) Limited

Release summary for 3 months to --/--/20--

	A13	A14	A15	A18
Dates of extractive samples for particulates.	NA		NA	NA
Results of extractive samples for particulates mg m ⁻³ .	NA		NA	NA
Dates of extractive samples for gaseous parameters.				
Sulphur dioxide mg m ⁻³ (as 2 hour average).				
Volatile organic compounds mg m ⁻³ (as carbon).				
Oxides of nitrogen (as NO ₂) mg m ⁻³ .				

Signed on behalf of UPM – Kymmene (UK) Ltd _____

Dated _____

Form A1
1st October 2003